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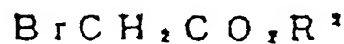
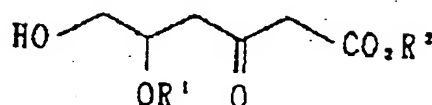
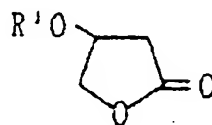
APPLICATION DATE : 02-11-90
APPLICATION NUMBER : 02298658

APPLICANT : KANEGAFUCHI CHEM IND CO LTD;

INVENTOR : TAKAHASHI SATOMI;

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TITLE : PRODUCTION OF
5,6-DIHYDROXY-3-OXOHXANOIC
ACID ESTER DERIVATIVE



ABSTRACT : PURPOSE: To obtain the title compound useful as an intermediate for HMG-CoA reductase inhibitor efficiently and economically by reacting 3-hydroxy-γ-butyrolactone derivative with lithium enolate of acetic ester.

CONSTITUTION: A compound shown by formula I (R¹ is H or silyl type protecting group) is allowed to react with a compound shown by formula II (R² is 1-10C alkyl, aralkyl or aryl), preferably lithium enolate prepared by reacting t-butyl acetate with lithium diisopropylamide at -100 to 20°C, preferably -80 to 0°C to give a compound shown by formula III. Or, the compound shown by formula I is reacted with an α-bromoacetic acid ester shown by formula IV in the presence of zinc at 15-70°C, preferably 20-65°C to give a compound shown by formula III.

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